# Transit PPPs International Style

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# Public and Private Transportation Infrastructure Services are at the Core of PB's Experience



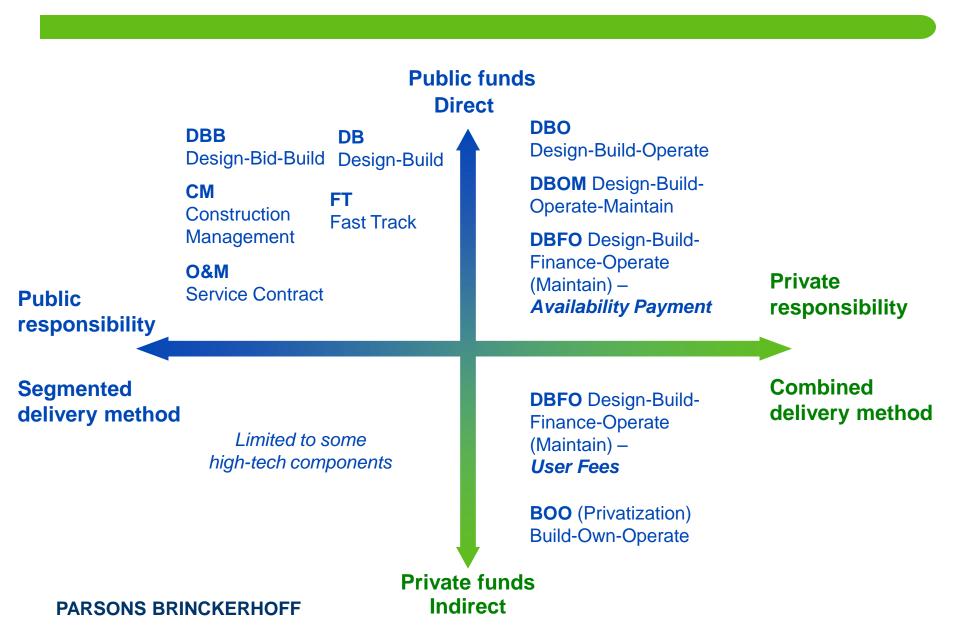






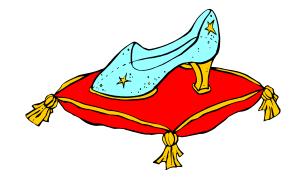


#### **PPP VARIATIONS**



#### **Cinderella Asset Class**

- Widening Investment Gap
  - Needed global infrastructure 2005-2010
    - Est \$370 billion PER YEAR
  - Balanced against growing deficits & other demands
- Investors: Infrastructure New Asset Class
  - Australian pension funds: Infrastructure now 5%
- What Do They Like?
  - High Entry Barriers
  - Inelastic Demand
  - Stable Cash flow
  - Long Duration
- 2002 2007 Performance
  - 124% vs. 96% Equities & 25% Bonds

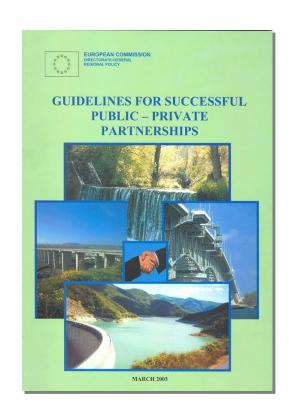


# **International PPP Frameworks**



### **European View on PPPs**

- Just like US Governments in Europe Struggle with Public Sector Deficits
- PPP Financing Grew By 1/3 2007
- New EU PPP Program
  - Help governments develop PPP projects
     & meet guidelines for European
     Investment Bank and other EU entities
- PPPs Estimated to Fund 15% of Infrastructure Projects in Europe



#### **Canada**

- Variety of PPP experience
  - Most activity in British Columbia



- Budget 2007 announced new Infrastructure Plan
  - Included \$1.25 Billion new national public-private partnerships fund
  - Merit-based, no allocation by jurisdiction
  - Contribute up to 25% of eligible costs
- Established new federal P3 Office
  - Identify opportunities & execute PPPs at federal level
  - Oversee assessment of PPP options for projects funded from federal infrastructure initiatives

# **Leveraging Lessons On Transit PPPs**

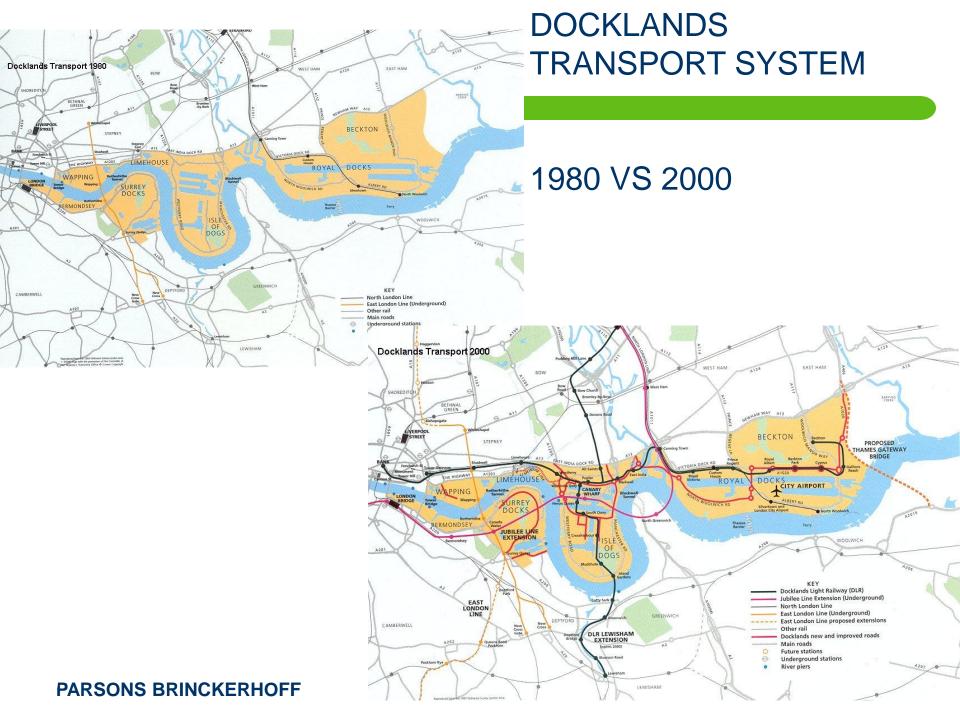


# **UK: London Docklands Light Rail**

- DLR
- Docklands: First major surface railway built in inner London in 20<sup>th</sup> century, Opened 8/31/87
- 1991 Transferred to London Docklands Development Corp
- Transit Agency: Transport for London
- Project
  - Original 13 km, 13 stations £77 million
  - 20 years of £1 Billion upgrades & extension
- Central to regeneration of East London
  - Next leading role: key component in UK staging of 2012 Olympic games
- DLR Owns Assets

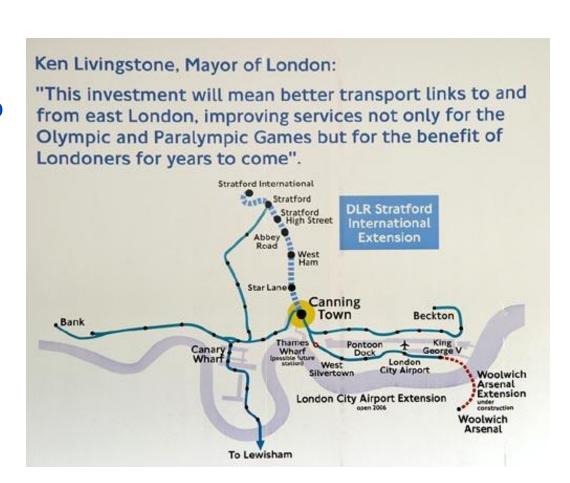






# **UK: London Docklands Light Rail**

- Privatized in 1997 Operate/Maintain
   Franchise Won by Serco
   Docklands
  - 5/06 new £400 million franchise for DLR System
- Series of Turnkey
   Construction Contracts
  - Latest July 2007
  - £67 million Canning Town-Stratford International line
  - To open 2010



#### **Dublin Metro**

- Sponsor: RPA (Railway Procurement Agency)
  - Responsible to provide light rail, metro infrastructure, top quality passenger services.
- Jan 2002 Government RFP mandated to deliver Dublin Metro project as PPP
- Total Metro Project est 1.5 Billion Euro
  - Public Sector Benchmark not public

#### **Initial Metro North Project**

- ■18 km high Capacity LRT in Tunnels and Elevated Structures
- Link St Stephen's Green to Dublin Airport then Belinstown
- 15 Stations



#### **Dublin Metro**

- DBOM/F
- Annual Availability Payments
- 30-Year Term
- Short List Four consortia, mix of international and Irish Companies

#### Metro North Procurement Process

#### 4 Consortia

- (1) Fluor Siemens
- (2) Barclays OHL Mitsui
- (3) HSBC
  Meridiam
  Acciona
  Bouygues
  Alstom
- (4) Macquarie
  AIB
  FCC
  Caja Madrid
  Bombardier



#### **Canada: TransLink**

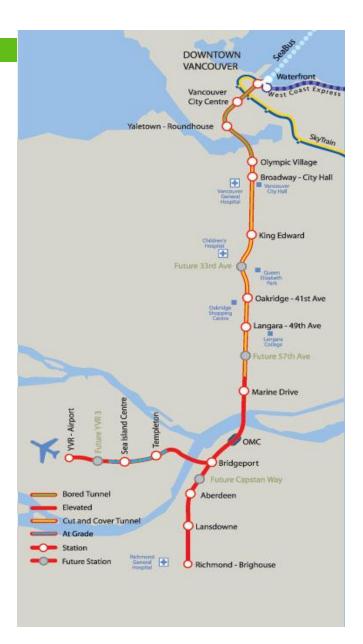
- South Coast British Columbia Transportation Authority (TransLink)
- Plans, Finances Implements and Operates an Integrated Transportation System
  - Public Transit AND Regional Roads
  - As of 2007, TransLink can expand services beyond Metro Vancouver
  - Provide services through contractors and our wholly-owned subsidiaries
    - Coast Mountain Bus Co., BCRTC (SkyTrain) and West Coast Express commuter rail.



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#### Vancouver RAV

- Sponsoring Agency
  - TransLink, Vancouver, BC/Richmond-Airport-Vancouver Project Management, Ltd. and Greater Vancouver Transportation Authority
- Project: Rapid Transit Line
  - Links Waterfront Station to downtown Vancouver to airport and Richmond city center
- Awarded 2005 CDN \$1.9 Billion
  - InTransit BC Limited Partnership (SNC Lavalin) 35-year Concession DBOM/F
  - Private Debt underwritten by 3 European Banks
- Scheduled to Open 2009



## **Bangkok Transit System**

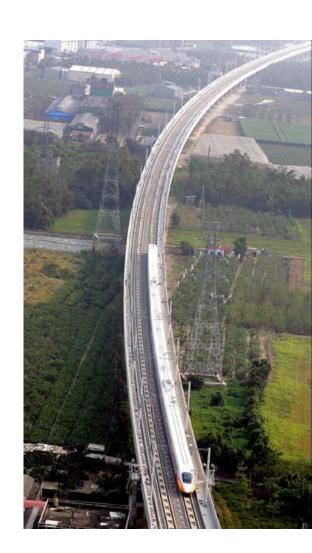
- Sponsor: Bangkok Municipal Authority (BMA)
- Project: 24 km \$1.5 Billion Bangkok Transit
   System
- Major Challenge: Overlapping Government Agencies
  - Bangkok: 16 separate agencies for surface and marine transportation
- Multiple Tenders for Transit Projects Failed under Expressway & Rapid Transit Authority
- BMA Successful But Prolonged Development/Construction
  - Awarded 1991 to Bangkok Transit System Company (Tanayong Group, ITD, Siemens)
- Opened for Revenue Service December 1999





# **Taiwan High Speed Rail**

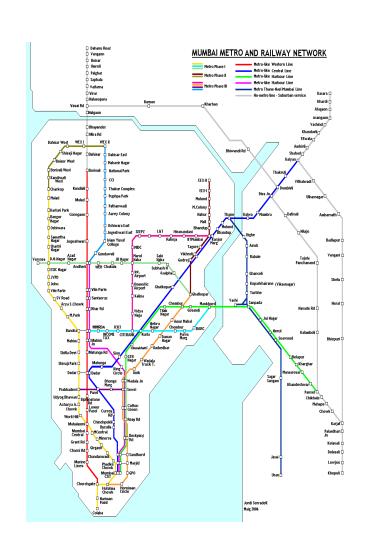
- Sponsor: Bureau of Taiwan High Speed Rail
- Project: 335 km from Taipei City to Kaohsiung City
  - Access to 90% of island
- October 1996 Announced PPP for HSR via Build-Operate-Transfer
  - Private consortium operate HSR line 35 years then return to government.
- Also: 50 Year Concession on Business Development Around 5 Stations
  - 3,700 acres for station area mixed-use development
- Opened January 2007





#### **Mumbai Metro**

- Prime Minister Started June 2006
  - "Set to redefine the lifeline of this metropolis"
  - Total program: 146 km, 3 phases over 15 years, 8 corridors
- Mumbai Metro: Versova-Andheri-Ghatkopar Elevated Mass Rapid Transit System - 11.5 km
  - Reduce trip time from 90 to 21 minutes
- Scheduled for Completion 2009
- BOOT 35-year concession, \$524 million
- Awarded to Reliance Energy, Connexsa, MTR
  - SPV with Mumbai Metropolitan Region Development Authority (74/26)



# **QUESTIONS & DISCUSSION**

